THE TECH

VOL. XXVII. No. 21 BOSTON, MASS., MONDAY, NOVEMBER 18, 1907 PRICE THREE CENTS

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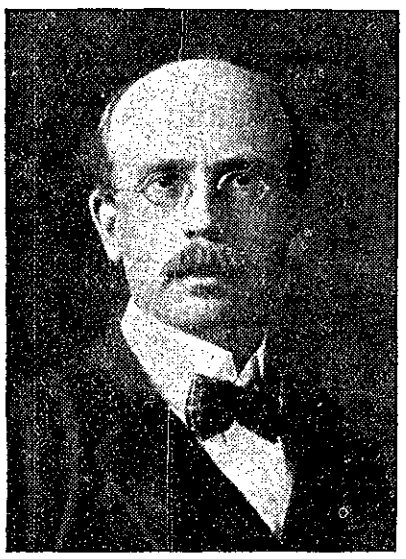
The thoroughness with which the library is stocked can be illustrated by considering the periodicals. Over three hundred of these are in foreign languages. One hundred and forty-four are in German, sixty-two in French, besides many in Swedish, Italian, Mexican, Spanish, and Russian. Also there are 86 British periodicals and some from Canada, Montevidio, Hawaii, the Philippines, Tokio, South Africa, and Bombay.



DR. R. P. BIGELOW, LIBRARIAN.

Open to all members of the Institute, the libraries of Technology comprise a General Library and twelve Departmental Libraries, those of Mathematics, History and Economics, Modern Languages, Civil, Mechanical, and Sanitary Engineering, Architecture, Chemistry, Physics, Naval Architecture, Biology and Geology.

In looking for a book, if the author is known, look for his name in the card catalog. Then look for the title of the book on the line below. Having found the card for the book, note the shelf number in red ink on the upper left hand corner or type-written in the lower left hand corner. This number will indicate the position of the book on the shelves.

Usually one must know the name of the author to find a book in the catalog. However, books of fiction and drama and a few others, as well as periodicals, are catalogued by title.

Sometimes one may want information on a particular subject. In libraries having a subject catalog. the subject may be found there and under this heading are cards for all the books in the library on the subject and cards giving reference to kindred subjects.

In libraries having a shelf list, but no subject catalog, find the subject number in the index of the "Decimal Classification" (usually to be found on the librarian's desk.) Then turn to the page of the shelf list having that number, and a list of the books in the library on the subject will be found arranged in an approximately chronological order.

In libraries having no shelf list nor subject catalog, find the subject number and then look on the shelves for

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TRIALS SHOW WELL BALANCED TEAM.

GOOD RACE. CROSS COUNTRY TRIALS.

MacCreadie Places First. Howland Fails to Finish.

Showing the true Technology spirit, remembering the defeat by Harvard two weeks ago, the candidates for the Cross Country team ran a really wonderful race yesterday afternoon in the trials for the varsity team. The race was run on the famous Readville trotting track, the men making the mile circuit six times.

The times made were extremely good throughout, the most hopeful sign for the team being the short distance between the first and last of the ten men that qualified.

W. T. MacCreadie, a Freshman, ran a great race, winning first place, but the greatest performance was that of Stephenson 1909, who has never been regarded anything more than a mediocre runner, scoring second.

Captain H. H. Howland quit at the end of the fourth lap. He was apparently neither sick nor lame. He will not be a member of the team in the intercollegiate race.

To the brilliant showing there are several things that contributed. The conditions for good running were ideal; on a smooth track, not over rough country, while the distance was short of the intercollegiate course.

About twenty men lined up at the start. At the end of the half mile Callaway was leading, doing the distance in 2m 38s. The first mile was done in 5m 36s. with the order; Callaway, 1908, MacCreadie, 1911, Batchelder, 1908, Stephenson, 1909, Ellis, 1909, Clapp, 1908, Howland, 1908, and Gimson, 1908.

The time at the next half mile mark was 8m 30s while the two miles were done in 11m 27s. Ellis was leading at this point with MacCreadie, Stephenson, MacCarthy, and Callaway following closely in the order given. The work of MacCarthy was a surprise to everyone as he has not been doing good work this fall.

At the two mile mark Harrington, 1910, Burton and Spencer, 1911, dropped out. The time at the end of the two and one half miles was 14m 26s while the three miles were covered in 17m 24 s. MacCreadie had sprung into first place with Stephenson at his heels. Ellis had dropped back and seemed tired. Callaway, Batchelder and MacCarthy followed in the order given with Howland eighth.

MacCreadie had worked away from Stephenson at the end of the next half mile doing the half in 3m 1s. MacCreadie still held the lead at the fourth mile mark with Ellis seven seconds behind. Stephenson was close to Ellis, with Ellis, MacCarthy, and Callaway following. Howland quit at this point from eighth position.

MacCreadie secured the first place with Stephenson hard after him for the second position. MacCreadie's time was 35m 34s. Stephenson came in 11s behind. The next five men were so closely bunched that it was impossible to take their times.

The order was MacCarthy, Callaway, Ellis, Gimson, and Batchelder. Clapp came in quite a distance behind. The order for the rest of the men was Cooley, 1911, A. Lenox, 1911, Forest, 1911, Ames, 1908, and Davis, 1911.

After the race P. D. White 1911, the Irish runner, ran his trials alone. He was unable to start in the race, missing his train. He ran splendidly and placed ninth with the time 36m 53s.

Coach Kanaly said after the race that the showing was good, and that Tech had a well balanced team. However, he said that the men were not in good condition. With two week's hard work he hoped to turn out a strong team.

The squad will work all this week. The practice run starts today from the gymnasium at 5. P. M.

(Continued on page 2.)

FENCING CLUB AIMS TO AID MEMBERS.

WILL PAY FOR INSTRUCTION.

Varsity Fencers Will Thus Have An Easier Time.

At a meeting last Friday, the M. I. T. Fencing Club was formally organized. A constitution submitted by Lange, 1909, was read and discussed and finally accepted. This constitution provides for the annual election of a president, vice-president, secretary and treasurer.

The officers for the ensuing year are: Capt. E. M. Loring, president; J. W. Nickerson, 1909, vice-president; V. C. Grubnau, 1909, secretary; F. J. Lange, 1909, treasurer.

The constitution states that the purpose of the club is to raise money and pay part of the instruction expenses of the six best fencers, selected monthly by competition, and to help out all the members if the fund permits.

This club will have charge of the exhibitions which have been planned by the coach, but will have nothing to do with the intercollegiate meets, which are

E. M. LORING, CAPT FENCING TEAM.

taken care of by the Athletic Association. The plan is to have meets between class teams, or if this division is too uneven, it has been suggested that Coach Fournon might select teams on a different basis or merely arbitrarily, making a team A, team B, etc., so as to make the contests more nearly equal and thus more interesting.

It was explained at the meeting that the method of raising money is to be by subscription, to be attended to by the candidates for the assistant-managership of the team, and that these candidates be judged by heir success in this line

It was suggested as a good idea that the club purchase an outfit to be used by any members who could not afford to buy one, but no action was taken on the matter at the meeting.

QUALITY OF TECH SHOW IMPORTANT.

Dean Burton Speaks on Institute Activities at Junior Dinner

Saturday evening the Junior Class dined at the Union. About one hundred members of 1909 were present, and the program proved to be both entertaining and helpful. During the course of the meal several songs were sung, including "Dear Old M. I. T.," which Jenkins sang, with the class joining in on the chorus.

Dean Burton opened the speaking of the evening by calling the attention of his hearers to their duties toward outside interests. "The Junior Class," he said, "is the class by which the whole Institute is judged. Its members have passed through the period of infantile

(Continued on page 2.)

TECH SHOW PLAY HAS BEEN SELECTED.

CANDIDATES FOR LYRICS AND MUSIC TO MEET TOMORROW.

Show Has Grown to be an Important Factor in Student Life.

Tech Show for this year has been provisionally selected and the competition for music and lyrics is to begin immediately. All who are interested can see Coach James Francis and the author in 34 Rogers, Tuesday, at 4 P. M. They will receive full instructions and advice, and as this is the only time that such instructions will be given, all who wish to compete should be sure to come to the meeting. The candidates for the management are to meet at the same time and place, and it is hoped that a large number of competitors in each branch will show up.

Tech Show has now become an important factor in student activities. From a small beginning it has grown to be, with perhaps one or two exceptions, the biggest social event of the year at the Institute. It started originally in 1899 when the Athletic Association found itself in need of money. Some of the prominent students and alumni decided to have a minstrel show in Huntington Hall, the proceeds to go to the association. The project grew so that finally it was necessary to hire the Hollis Street Theatre.

This minstrel show proved so successful that it was followed the year after by a musical comedy entitled, "The Medicine Man," written by students. This show gave $500 to the Association. The next year it was necessary to take a written play by outsiders, and "The Grand Duke," by W. S. Gilbert of England, music by Sir Arthur Sullivan, was given for the first time in America.

The following year a play, dealing entirely with Tech students was written by Mrs. Edmondson Walker, and played under the name of "Applied Mechanics." "The Scientific King," by students followed and made $1000, far exceeding all previous amounts.

In 1904 was given the first show to gain any great reputation and to give a standing to the Tech Show. The music of this piece was excellent and showed what Tech students were capable of. This play was followed by the "Chemical Maid," "The Freshman," and last year's show, "William, Willie, and Bill," which was the most successful of all.

NOT FILLING WITH SEWAGE.

Prof. Sedgwick Refutes Statement to this Effect.

In a statement made Friday Prof. Sedgwick ridicules a statement recently issued that the discharge of sewage into Boston harbor is filling the harbor bottom at the rate of 10,000 cubic yards a day. He says, however, that methods other than those now in use are demanded for the well-being of the city.

Prof. Sedgwick said in part:—

"The chief engineer of the State Board of Health states in his report of 1905 that in the immediate vicinity of the Moon Island outlet, one of the three points at which sewage is discharged into the harbor, some deposits of organic matter to take place in the shallow water during the summer season, but that these are apparently removed by the easterly storms of the fall and winter and that no permanent accumulation of material can be traced to the action of the sewage discharged.

"On the other hand, it must not be supposed that the pouring into Boston harbor of 100,000,000 gallons of sewage daily at Moon Island, 50,000,000 gallons daily at Deer Island, and 20,000,000 gallons daily at Peddocks Island is a matter of no consequence. The present method of sewage disposal obviously leaves much to be desired and ought not to be con-

(Continued on page 4.)

THE TECH

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Monday, November 18, 1907.

A FARCE.

An important meeting of the Institute Committee will be held today in the Trophy Room. This meeting will be important because officers of the committee are to be elected. Otherwise, the meeting would not be important if previous Institute Committees are to be taken as examples.

The Institute Committee is one of the most ideal of student organizations. Among its theoretical functions are: first, to bring about reforms in the conduct of student activities; second, to ask the Faculty for reforms in methods of instruction and methods of administration in dealing with the student; and third, to investigate abuses that have any connection whatsoever with the student. There are other functions that might be enumerated, but it would be a useless task, for in the practical workings of this ideal committee, the mentioned functions are never fulfilled.

Practically, the Institute Committee is a most honorable body, places on which are to be striven for politically or otherwise. There must be an exceeding striving before a man becomes a member, for there is never striving for anything after the election. This last statement is not wholly true, for each member of the Institute Committee seems to strive to stop definite action, to prevent any suggestion of reform.

A very prominent member of the Institute Committee said last year, "The Institute Committee has one important meeting in the year. It goes to the photographer to get its picture taken for Technique." Another said, "The members of the Institute Committee would rather pay fines than attend meetings."

Yet this same committee, if a live organization, could do an immense amount of good for the student body of the Institute. Numerous matters arise that should be taken up by this body.

This fall the following matters have been mentioned:

A little law and order in regard to posters in the Institute buildings.

Better control over class elections to prevent such scandalous statements as have arisen from the recent 1911 elections.

Abolition of that college custom, "Field Night."

A suggestion to the Faculty that the gaps between the first and second years, and second and third years be made less apparent to students in certain courses.

Better sanitation in the Rogers building.

Whether the Co-operative Society at the Institute compares in co-operation with, say, the Harvard Co-op, and whether an improvement could not be made over the present system.

More uniform note paper in the requirements for the various courses.

A certainty of fairness in the competitions for places in various student activities.

The need of giving lectures to the Freshmen surveying fully the work in the various courses, these lectures to give the new man a comprehensive idea of value of his different studies.

The need of the "atelier" spirit in other courses than Architecture.

An investigation in certain courses, in which many students fail, to ascertain whether the instruction is adequate preparation for the examinations given.

An investigation of certain costly text books that have become ancient or antique.

Need of a point system on drawings in the Architectural Course.

Why there have been no Convocations.

Why there have been no Kommers.

There are many others if the members of the Institute Committee take the trouble to listen to the complaints of the students and even of the Faculty, for that body is powerless to bring about certain reforms in the conduct or student enterprises.

FENCING MANAGER.

With regard to the election of a manager for the Fencing Team it may be well to remember that last year a competition for that position was in progress. In the competition one man did all the work for the Fencing Team. He put up posters, attended to arrangements and did everything that there was to be done. Mr. Place, the present manager confirms this and the captain of the team recognized him throughout the season as assistant manager.

The man referred to is Shaffer, 1909, and he undoubtedly deserves the position. It would seem that under the circumstances there can be no question as to what course the Athletic Association should take.

JUNIOR DINNER

(Continued from page 1.)

scraps, and have not yet begun to worry about their degrees." He spoke of Technique as the Institute's best advertisement in the prep schools, drawing obvious conclusions as to its needs. Then he took up the show. This is likewise an important affair and its effect on the public must be considered. Two years ago a play was presented which represented the current tendencies of the stage, but not the ideal of a clean college play, and this told on the reputation of Technology, especially in its social life

R. H. Allen was next introduced, and sang some very amusing ditties.

Professors Dewey and Passano spoke, and Robinson sang some gypsy songs.

INSTRUCTOR'S ATTENTION CALLED.

Communication.

The Editor of THE TECH:—

May I please, through your columns, call the attention of any member of the instructing staff not reached by the club notice, to the Dinner of the Instructor's Club on Tuesday evening, Nov. 19, in the Union at 6.30? Prof. Jaggar will speak, after the dinner, on "The Technology Excursion to the Aleutian Islands.

As the annual business meeting precedes Prof. Jaggar's talk, this evening is an occasion especially appropriate for the attendance of all assistants and instructors who desire to become members for the ensuing year. H. L. SEAVER.

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LIBRARIES OF TECH.

(Continued from page 1.)

books having that number. Further information may be found in the guide to the libraries of the Institute, prepared by Dr. R. P. Bigelow, librarian, and obtainable in the General Library.

In all the libraries the books are arranged according to the "decimal system of classification." Each book is given a number that indicates the subject of which it treats and then the books are arranged on the shelves clockwise around the room in the order of these numbers. So all the books on one subject are placed as nearly as possible together. In libraries that have a shelf list the books on each subject are arranged according to book numbers which are placed beneath the subject numbers.

The General Library is in Rogers at the end of the main corridor. There may be found books on English Literature, treatises on military science and educational subjects, dictionaries, encyclopedias and other works of reference, general periodicals, reports, transactions, works on history, except that of the United States, and a valuable collection of about 400 volumes on athletics, sports, and personal hygiene. Also it contains a card catalog of all books in the libraries of the Institute and a shelf list of the books of English literature and modern languages. The office of the librarian adjoins the General Library.

The Library of Mathematics is in 26 Rogers. It contains 1,600 books in all branches of mathematics, new publications being added as soon as issued. The more important mathematical journals are regularly received. There is also an extensive collection of mathematical models. This library is open to advanced students who must obtain permission to use it from the professor in charge.

Every student enjoys unrestricted access to the Library of History and Economics, 40 Rogers. It contains 12,000 volumes and several thousand pamphlets, diagrams, and maps, all relating to U. S. history, political science, economics, and statistics. It has a catalog of authors.

Conveniently situated in Lowell near the rooms where modern languages are taught is the library of this department. It comprises about 1,600 books in modern European literature and philology, chiefly French and German together with dictionaries and works on grammar.

The libraries of the departments of Civil, Mechanical and Sanitary Engineering are located in 40 Engineering A. Here are some 13,000 volumes and 5,000 pamphlets, also over 200 journals and transactions of engineering societies. It has an author's catalog and shelf list.

The Library of Mining and Metallurgy, 8 Rogers, contains over 4,000 volumes and periodicals on prospecting mining, ore dressing, assaying, metallurgy, fuels, furnaces and the like. This library has an author's catalog.

The Architectural Library, 33 Pierce, contains 4,000 volumes of technical works on architecture, building, decoration, the history of art, and allied subjects, American and foreign periodicals, and a carefully selected collection of 16,000 photographs and 15,000 lantern slides. It is provided with both author and subject catalogs and a shelf list.

In 39 Walker is the Chemical Library. It contains 10,000 volumes and 1,700 pamphlets, complete sets of most of the important chemical periodicals and a noteworthy collection of works on sanitary science. It is provided with author and subject catalogs and a shelf list.

The Library of Physicis, 14 Walker, contains 8,000 volumes and is very complete in recent works on astronomy, physics, electricity, and electro-chemistry. Books may be looked up in an author's catalog or in a shelf list.

The Library of Electrical Engineering, across the corridor from 6 Lowell, consists of 1,500 volumes of a technical nature.

The Rogers Geological Library, founded with the private collections of the first president of the Institute and his brother, contains 3,000 volumes devoted to geology, mineralogy, paleontology, all the current periodicals, and geological and geographical maps, including a complete set of the United States Geological Survey. It has a catalog of authors.

The Biological Library, 27 Pierce, contains over 3,000 books on general biology, physiology, zoology, botany, bacteriology, sanitary science, and industrial biology, catalogued according to authors.

Situated in Engineering C, next to the drawing room of naval architecture is the library of this department. Here are over a thousand volumes and pamphlets on naval architecture, shipbuilding, and marine engineering. Also here is an extensive collection of plans and drawings arranged for easy reference by students.

All of these libraries are well equipped and kept up-to-date in their particular line. They constitute one of the most valuable parts of the Institute.

TECH WILL COMPETE IN NEW YORK.

To Send Team to Sportman's Show.

At a meeting of the Rifle Club Friday a letter from the secretary of the National Rifleman's Association was read requesting the club to send a team to compete at the New York Sportsman's Show during the Christmas vacation. It was decided to write to the association for farther particulars, and if conditions prove satisfactory to send a team of four men to compete.

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(Continued from page 1.)

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CALENDAR.

Monday, Nov. 18.

1:00 P. M. Institute Committee Meeting in 34 Rogers.
1:10 P. M. Meeting of THE TECH Board of Editors in 30 Rogers.
4:00 P. M. Glee Club Rehearsal at the Union.
4:00 P. M. Mandolin Club Rehearsal in 33 Rogers.
4:10 P. M. Gymnasium Class Work Begins.
5:00 P. M. Practice Run of C. C. Team From Gym.
7:30 P. M. Civil Engineering Society Smoker at the Union.

Tuesday, Nov. 19.

4:00 P. M. Meeting of Candidates for Show Management in 34 Rogers.
4.00 P. M. Banjo Club Rehearsal in 33 Rogers.
6:30 P. M. Dinner of Instructors' Club at the Union.
8:00 P. M. Third Evening of the Season of the Technology Club at 83 Newbury Street.

NOTICES.

1909.—Prom Committee Nominations must be signed by ten members of the Junior Class and handed in at the Cage before 4:00 P. M. on Wednesday, Nov. 27. Leave in care of 1907 nomination Committee.

CLASSIFIED ADS.

Advertisements of this kind under different classifications are inserted at the rate of five cents a line, averaging six words to a line, payable in advance.

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